



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/643,729	08/23/2000	Yvon Bergeron	14786-1US JA/AA	9798
20988	7590	01/12/2004	EXAMINER TON, ANTHONY T	
OGILVY RENAULT 1981 MCGILL COLLEGE AVENUE SUITE 1600 MONTREAL, QC H3A2Y3 CANADA			ART UNIT 2661	PAPER NUMBER 5

DATE MAILED: 01/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/643,729

Applicant(s)

BERGERON ET AL.

Examiner

Anthony T Ton

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 13 is/are allowed.
- 6) ☒ Claim(s) 1-12 and 14-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) ☐ Other:

### Detailed Actions

#### *Abstract*

1. The disclosure of abstract is objected to because the following minor informalities:

Term "**add**" in line 5 is not appropriate with its singular subject "The gateway" in line 4. It is suggested to change this term to "**adds**".

Appropriate correction is required.

#### *Specification*

2. The disclosure of is objected to because the following minor informalities:

a) A detailed description for **Figure 4** hasn't been shown in the specification.

b) Term "**comunications**" in page 1 line 7 is misspelling; it should be changed to "**communications**".

c) Term "**exists**" in page 1 line 17 is not appropriate with its plural subject "several solutions". It is suggested to change this term to "**exist**".

d) Term "**authorised**" in page 11 line 14 is not suitable for English used in the U.S. It is suggested to change this term to "**authorized**".

e) Terms "**synchronise**" in page 13 line 15 and "**summarises**" in lines 18 and 20 are not suitable for English used in the U.S. It is suggested to change these terms to "**synchronize**" and "**summarizes**", respectively.

f) Term "**compress**" in page 15 line 25 is not appropriate with its singular subject "the main thread 69". It is suggested to change this term to "**compresses**".

Appropriate correction is required.

***Claim Objections***

3. Claims **1, 4, 5, 7** and **15** are objected to because of the following informalities:

a) **Claim 1:** term “**for each of said at least one wireless terminal at least one wireless terminal identifier**” in the sentence of “said data including for each of said at least one wireless terminal at least one wireless terminal identifier” in lines 4 and 5 is not quite clear. The term should be rewritten for more clearly.

b) **Claim 4:**

- term “**in order to for**” in line 3 is redundant. It is suggested to change this term to “**for**”.
- term “said at least one **destinations**” in line 4 should not be in plural. It is suggested to change this term to “said at least one **destination**”.

c) **Claim 5:** term “one of said destination **address**” in line 2 should be in plural. It is suggested to change this term to “one of said destination **addresses**”.

d) **Claim 7:**

- term “**headers** information” in line 3, the headers should be in singular. It is suggested to change this term to “**header** information”.
- Term “**said packets**” in line 3 should be changed to “**said data packets**” to be unique with such a term cited in lines 1, 8, 13 and 14, and 18 and 19 of the Claim 1 and in line 2 of Claim 8.

e) **Claim 15:** term “header **info**” in line 3. The info should be completely spelled out. It is suggested to change this term to “header **information**”.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

5. Claims **1-12** and **14-18** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a) **Claim 1** recites the limitation "**said wireless terminal**" in line 6. Does this limitation refer to the limitation "at least one wireless terminal" cited in line 3 and the limitation "said at least one wireless terminal" cited in lines 4, 9, 17 and 19? There is insufficient antecedent basis for this limitation in the claim.

b) **Claim 2** recites the limitation "**the communication**" in line 3. There is insufficient antecedent basis for this limitation in the claim.

c) **Claim 3** recites the limitation "**the header information**" in line 3. There is insufficient antecedent basis for this limitation in the claim.

d) **Claim 3** recites the limitation "**said wireless terminal**" in lines 3 and 4. Does this limitation refer to the limitation "at least one wireless terminal" cited in line 3 and the limitation "said at least one wireless terminal" cited in lines 4, 9, 17 and 19 in Claim 1? There is insufficient antecedent basis for this limitation in the claim.

e) **Claim 4** recites the limitation "**said destinations**" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim.

f) **Claim 5** recites the limitation "**said header converter**" in line 5. There is insufficient antecedent basis for this limitation in the claim.

g) **Claim 15** recites the limitation "**said mobile terminal**" in line 2. There is insufficient antecedent basis for this limitation in the claim.

h) **Claim 15** recites the limitation "**said header converter**" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim.

i) **Claim 17** recites the limitation "**said header**" in line 4 and line 13. There is insufficient antecedent basis for this limitation in the claim.

j) **Claim 18** recites the limitation "**said header**" in line 5 and line 15. There is insufficient antecedent basis for this limitation in the claim.

k) **Claims 2-12 and 14-16** recite the limitation "**The apparatus**" in line 1. There is insufficient antecedent basis for this limitation in the claim.

#### ***Allowable Subject Matter***

6. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach a combination of the following steps of **Claim 13**:  
A wireless terminal for transmitting wireless packets over a wireless network, said wireless terminal comprising:

a header manager transmitting header information for a particular destination on a second network, and said wireless packets to said wireless network without a header suitable for a protocol used on a second network;

a memory comprising data representing header information concerning at least one second network terminal;

Art Unit: 2661

a memory manager collecting information from said wireless packets received from said wireless network in order to build up and maintain said memory; and

a relay module collecting said data packets, not having a header suitable for said protocol, from said wireless network to build a data packet with a header suitable for said protocol using said data.

7. Claims **1-12** and **14- 18** would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is relating to a gateway for a wireless network: Lincke et al. (US 6,397,259); Huang (US 6,618,397); Harvey (US 6,330,599); Short et al. (US 6,130,892); Cox et al. (US 6,172,981); Schorodi et al (US 6,590,896); Shigeta (US 6,667,974); Brownigg et al. (US 6,249,516); Toprek et al. (US 6,460,085 and US 6,584,083); Oz et al. (US 6,434,141); Boucher et al. (US 6,427,173); and Kavner (US 6,289,390).


### ***Examiner Information***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony T Ton whose telephone number is 703-305-8956. The examiner can normally be reached on M-F: 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W Olms can be reached on 703-305-4703. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

ATT



**KENNETH VANDERPUYE**  
**PRIMARY EXAMINER**



**U.S. DEPARTMENT OF COMMERCE**  
**PATENT AND TRADEMARK OFFICE**

## EXAMINER'S CASE ACTION WORKSHEET

Application No. 09/643,729		Legal Instrument Examiner
-------------------------------	---	---------------------------

CHECK TYPE OF ACTION

DATE OF COUNT

<input checked="" type="checkbox"/> Non-Final Rejection	<input type="checkbox"/> Restriction/Election Only	<input type="checkbox"/> Final Rejection
<input type="checkbox"/> Ex Parte Quayle	<input type="checkbox"/> Allowance	<input type="checkbox"/> Advisory Action
<input type="checkbox"/> Examiner's Answer	<input type="checkbox"/> Reply Brief Noted	<input type="checkbox"/> Non-Entry of Reply Brief
<input type="checkbox"/> Defective Notice of Appeal	<input type="checkbox"/> Interference Disposal SPE _____ (Approval for Disposal)	<input type="checkbox"/> Suspension (Examiner-Initiated) SPE _____ (initial)
<input type="checkbox"/> Defective Appeal Brief	<input type="checkbox"/> SIR Disposal (use only after FAOM)	<input type="checkbox"/> Supplemental Examiner's Amendment
<input type="checkbox"/> Miscellaneous Office Letter (With Shortened Statutory Period Set)	<input type="checkbox"/> Notice of Non-Responsive Amendment (With One Month Time Period set)	<input type="checkbox"/> Miscellaneous Office Letter (No Response Period Set)
<input type="checkbox"/> Abandonment after BPAI Decision	<input type="checkbox"/> Supplemental Action (excluding Examiner's Answer)	<input type="checkbox"/> Response to Rule 312 Amendment
<input type="checkbox"/> Letter Restarting Period for Response (e.g., Missing References)	<input type="checkbox"/> Interview Summary	<input type="checkbox"/> Authorization to Change Previous Office Action SPE: _____ (Initial)
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Express Abandonment Date: _____	<input type="checkbox"/> Other Specify: _____

**Examiner's Name:** Anthony T Ton

**AU:** 2661